

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: Jofuku, K. Diane Okamuro, Jack K.
- (ii) TITLE OF INVENTION: Methods for Improving Seeds
- (iii) NUMBER OF SEQUENCES: 99
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Townsend and Townsend and Crew LLP
 - (B) STREET: Two Embarcadero/Center, Eighth Floor
 - (C) CITY: San Francisco
 - (D) STATE: California
 - (E) COUNTRY: USA
 - (F) ZIP: 94111-3834
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy/disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/879,827
 - (B) FILING DATE: 20-JUN-1997
 - (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/700,152
 - (B) FILING DATE: 20-AUG-1996
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Bastian/ Kevin L.
 - (B) REGISTRATION NUMBER: 34,774
 - (C) REFERENCE/DOCKET NUMBER: 023070-067210US
 - (ix) TELECOMMUNICATION, INFORMATION:
 - (A) TELEPHONE: (415) 576-0200
 - (B) TELEFAX: (415) 576-0300
- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1669 base pairs (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY; linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (ix) FEATURE:

 - (A) NAME/KEY: -(B) LOCATION: 1..1669
 - (D) OTHER INFORMATION: /note= "canola APETALA2 (AP2) domain containing (ADC) gene"
 - (ix) FEATURE:
 - (A) NAME/KEY: misc feature
 - (B) LOCATION: 1..592
 - (D) OTHER INFORMATION: /note= "gene sequences 5' to start site"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

| 60 | CGGAAATTAA | TAGGAGAAGA | GCCCACGTGG | GTTCGTGGCG | TTCCNTNATN | CAGCNGNGTT |
|------|------------|------------|------------|------------|------------|------------|
| 120 | TAGTTGGAGT | AAATTTCGAG | GAACATAATT | AAGAAAGGGG | GTCACCCTAC | CAAATTCATN |
| 180 | CATCTTGCTT | CCATCTACAT | TAAGATACTC | AGAAATTAAA | CAATAGTACA | AGGAGAAGCT |
| 240 | AATTTCCCTT | TTGTGAATTT | ACTGTGAACC | TTCCAGTAAA | CATAATAGTT | TTTCTCATCC |
| 300 | GGAAACAGTC | CCAGAAACTA | ACTCAGGAGA | TGGTGTTTAT | AGATACCTTG | TTATATATAA |
| 360 | TAAACTTTAT | GATTCATTCA | CTCAAAATTT | ATAATCAAAT | GTATTGGGAA | TATTACATTT |
| 420 | ATGGAGTCCT | CTAATAACGA | GCCTCTCCTT | TAAATTTTTT | TTTTCGTTGA | ACTATATACT |
| 480 | TATATATGAC | GATATTTATT | ATTTCATATG | TGTGATTTTC | TATTNCCTAA | AGCACATATA |
| 540 | GTCTTCTCTC | TGTCATTAGA | ATGGTTCTCT | ATTGCTTTTG | ATCCCATCTT | TATTTATTCC |
| 600 | ATATGTGGAA | TACAAGAGAG | TCCTCTTTAT | TGCTTTTGTT | CATATTTCTT | TTATTGCTCT |
| 660 | GGGCTGGAGA | AGATGGAAAC | ATCCGACGGT | ACCACGAAGA | TCACCTGATC | CCTTAACGAC |
| 720 | CCGTGACCCG | TCTGTTCCTC | GTGTCTGTCG | CATCGACCAC | TCTATGAGAT | TGTACCAATC |
| 780 | GGGTCCCGTA | AGGAATATCT | AGGAAGTTCC | ATCATGGAAC | TCCGAATCAA | GATATTTTTT |
| 840 | CCGGAAAACC | GTCTGGTCGT | ATCCTAGCGG | GTTCGGTCGA | CCAGTCTCTT | TCACTAGAAA |
| 900 | TCACGGAGCT | TGGTCCTCGC | AGAGCCGACG | CCGGTAAAAA | GATAACACAG | TAGAGCTGGA |
| 960 | CATATTTGGT | ATGGGAGTCA | GAACCGGAAG | TTTTATCGAC | AGGAGTTACT | CTCAGTATAG |
| 1020 | TGGTAAATCT | ATTACCTATA | GAATACTATT | ACGATATACC | TCTTAACCCG | AACTTAATTT |
| 1080 | AAAATATGTT | TGTTGTTTTT | NATACCGTAT | CATTTGAGCC | TGTTTCATTT | ATCAAATACA |
| 1140 | TGTAATGTTG | GGTATGATCA | AGTGTACTTA | GCGGGAAGCA | TGCAGGGACT | TGGAATCTTA |
| 1200 | CCATTTTTAT | TTGTGTCTGT | CTAAGTTGTG | CCTATTGAAA | GATCAAATAT | TTCAAACACA |
| 1260 | TGTTACATAT | TATTACTTTT | TATCTCCTTA | AAGGTTTTAT | CGACCAAATA | ATGATTTCTT |
| 1320 | CCAAATATGA | TTTTACTCAT | GCTCGGTATG | ACATGCCGCT | TTGACACAGC | TCAGGTGGAT |
| 1380 | AATTAATTTG | CTGATATACA | TTGTAATTTG | ATTCCTTATT | CGAATCTAAT | TCAATTAGAA |
| 1440 | AGAGGTGTAG | AGTTAAGTTT | ATAGAGCCGC | AGTGCCTACG | TGTTTGGGAC | GGTGGGTAAC |
| 1500 | GTAAAATATT | TTTGAAACAG | ATGTGGAGGA | ATTGAAGACT | AAATTTCAAT | ATGCAGATAT |
| 1560 | ACAAATTAAT | CGAACATAAA | GATTATTACT | AATTGACTTA | AGGTTCAAGC | TATTATTTGT |
| 1620 | AGAAGGCAAA | GCATGTCATT | AAGAGTTCAT | TTGACAAAGG | GATGACGCAG | ATTTGTTGCA |
| 1669 | | CACTTTGCA | ATAGAGGTGT | AGCTCTAAGT | TCCAAGAGGC | GCACTGGGTT |

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 803 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- (A) NAME/KEY: -
- (B) LOCATION: 1..803
- (D) OTHER INFORMATION: /note= "soybean APETALA2 (AP2) gene"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

| GGATTGTGGG | AAACAAGTTT | ATCTAGGTAA | AGTTGATTAA | TAACAATAAT | TGTATATGTG | 60 |
|------------|------------|------------|------------|------------|------------|-----|
| TTTGTGAGAA | CTGTGGCAGT | TATTTTTCCT | AATATTGTTT | TAAGAGGCTA | AAACGGTTTT | 120 |
| TTTTTCCTTG | TTTTGTGTTT | TTTGTCTTGG | CTGTGATGCG | GTAGAGACAA | GAGTGTGAGT | 180 |
| GTGTGTTGTG | TGTGGGTGAG | GATTTTTTR | TTTTTTTGTG | GTGACTGACT | TGATGGTTTT | 240 |
| TGTCTGGGTA | AAATTTGTCT | AGGTGGATTT | GACACAGCAC | ATGCGGCTGC | TCGGTGAGCC | 300 |
| CTTGCCCCCT | CCTTTAGTAT | TATACCAAGC | TTGTAATATT | ACTTTTTCCA | TGTCTTGAAC | 360 |
| CAAATATCAA | ATATTATTGT | AAATCACATT | TCGTTGTGGG | CCGGGGAATT | GTGAGTCTCA | 420 |
| AAGAAAATTG | TGTATTTTCC | GTCTCTCTTT | TCAGTGCTTA | TGATAGAGCG | GCTATTAAAT | 480 |
| TCCGAGGAGT | GGAGGCTGAC | ATTAACTTCA | ATATTGGAGA | CTATGAAGAT | GACTTGAAGC | 540 |
| AGGTGATCAA | TTTGTGGATT | ATGTTTTTT | TATTCGATAT | AAATGCATTT | ATCGTATTTA | 600 |
| TCTTATCTTG | AACAGTCATA | CGTATAGGAT | GCACCTTATC | TCCTACAGTT | AGTGTTTTTT | 660 |
| TTTATCTTGA | ATTATTCTCA | TGATTTTGTT | AAATGCAATG | TTAATAGATG | AGCAATCTTA | 720 |
| CCAAGGAAGA | GTTCGTCCAC | GTGCTTCGCC | GCCAAAGCAC | TGGATTTCCG | AGAGGAAGCT | 780 |
| CCAAGTATAG | AGGTGTCACT | TGC | | | | 803 |

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 11721 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single

 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- (A) NAME/KEY: -(B) LOCATION: 1..11721
- (D) OTHER INFORMATION: /note= "Arabidopsis APETALA2 (AP2) genomic sequence"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

| GTAAGCAATA | ATATAGTTTG | AACAATGAGT | TCAAAAGCCT | TTGGTTGGAA | TAACTCATTA | 60 |
|------------|------------|------------|------------|------------|------------|-----|
| AGAAAACAGA | TAGTTTAAAA | TCAATTGAAT | TATGATTTCA | GACATAGTAT | AAGTTTGGGC | 120 |
| AAAGTATTTT | AATGGAAATA | GAATACAAAC | TTGATAACAA | GTTATTGCCA | TTTAGAAAAT | 180 |
| GTTATAACTC | CTTATATAGT | GAGAACCCTA | TTGCTTGCTT | GTGTTCAAGG | AATTGCTGTT | 240 |



TATGGAACTC CACTTTAAAT AAACATATAA ATAATCTATT TAGTATCAAA AACTTAATAT 300 CCCATCTACT TTGAATTTGC CCGATCATGA AAACACCTAT TTATTGTACA TAAATATACA 360 TCTTTAACAA ATATAGATCT ATTTGTATTT GTATCTTATT ACCTTTTATT CATATAGAAA 420 AAGGAAAAA CAAACAAAAA GCTTTGTTCC AAGAGTTTAA AGTATATCAA AATTGGCAGT 480 ATTGTGGGGT TTTGAAGTAA TCTACTAGAT TATTCATTTT CTTGCAAAAA ACACCTTTTT 540 ATAGTTGCTT ACCGAACCAA GCCGTGGACT TCACTTTCTT AAAACATGAA ATTACATATT 600 AAAGGAATCT TTTGATTAAT CAAAGAAGAT GTTTGTATAC ATAGATAATA AATGAAAGTG 660 GAAATATTTT TTTTTAAAAT AAAGAAAAA AATAAAGAAA CTCCAATACG AGGAATTGTT 720 TCGAATATAA TCTTTTTCC AAAGAAAGCA AGTGGTTAGA GAGAGAATAA TATTATTTTA 780 TTAAATTTTT ACAAAAAAA CAGTGACAAG AGAAGAGAGA GAGAGAAAGG GCAGTGGAAG 840 TAAATATAAA GGAAAGGATA AAAATGAAAG CTTTCGTAGA AGCAATCTAT CAAATTTTTA 900 TTTTATTTTC TTCTCTCTC CTCTTTAGCT CTTTTTTTTT TGTTTTCATT AAAGTTTTTA 960 TTTTATTTC TACCAACCAA AAGCTTTTCT CTTTGGTTTC TCTTATTTAG CTTCTAACCT 1020 TGAGGAGAAT CATACCAGAG GATTGAAGTT TGAACCTTCA AAGATCAAAA TCAAGAAACC 1080 AAAAAAAAC AAAAAAATG TGGGATCTAA ACGACGCACC ACACCAAACA CAAAGAGAAG 1140 AAGAATCTGA AGAGTTTTGT TATTCTTCAC CAAGTAAACG GGTTGGATCT TTCTCTAATT 1200 CTAGCTCTTC AGCTGTTGTT ATCGAAGATG GATCCGATGA CGATGAACTT AACCGGGTCA 1260 GACCCAATAA CCCACTTGTC ACCCATCAGT TCTTCCCTGA GATGGATTCT AACGGCGGTG 1320 GTGTTGCTTC TGGCTTTCCT CGGGCTCACT GGTTTGGTGT TAAGTTTTGT CAGTCGGATC 1380 TAGCCACCGG ATCGTCCGCG GGTAAAGCTA CCAACGTTGC CGCTGCCGTA GTGGAGCCGG 1440 CACAGCCGTT GAAAAAGAGT CGGCGTGGAC CAAGATCAAG AAGTTCTCAG TATAGAGGTG 1500 TTACGTTTTA CCGGCGTACC GGAAGATGGG AATCTCATAT TTGGTAATAA TCTCATATTT 1560 TTAATTTCGT TAATCGATCG TACTTTAGAT TATAAATTTA AGTTTTTTTT TGTTTGTTCT 1620 TCTGAATTC AGGGACTGTG GGAAACAAGT TTACTTAGGT AATTTTATTT TCCTCATGTT 1680 TTTTTTTTTT TAATTTATTA TAANCTCTGA 1740 ATAGGTGGAT TTGACACTGC TCATGCAGCA GCTCGGTATT TTTCTCTCTT TGACTCTCTC 1800 TATATTGAGT TGTTATTTAT TTATTTTTT AAAAATACCG GAAGAAATTT ATAAAAATTA 1860 ATTTTAATTT TGTTTTATTT AATAGAGCAT ATGATAGAGC TGCTATTAAA TTCCGTGGAG 1920 TAGAAGCGGA TATCAATTTC AACATCGAAG ATTATGATGA TGACTTGAAA CAGGTAAATA 1980 TAAATTATAA ACTATATTGG TTTTTATTAA CGATTTTTAA AGGTTTGGGA GATTAATATT 2040 GAAATTGAAT TTTATAGATG ACTAATTTAA CCAAGGAAGA GTTCGTACAC GTACTTCGCC 2100 GACAAAGCAC AGGCTTCCCT CGAGGAAGTT CGAAGTATAG AGGTGTCACT TTGCATAAGT 2160 GTGGTCGTTG GGAAGCTCGA ATGGGTCAAT TCTTAGGCAA AAAGTATAAT TTCTCTCATT 2220 TTATATTCAC TCGAAAACTT CATTTTTAGT TTGTTATTTT AACTTTGAGT TTTTGTTTCT 2280

5/

TGAATCTTAT AAAATAGGTA TGTTTATTTG GGTTTGTTCG ACACCGAGGT CGAAGCTGCT 2340 AGGTAAATGT CTTTTTGTTT GATTCTACAA CACACATTGT TGTATAATGT GTTTTTCTCG 2400 TTACTAATTG ATTTTCATTA TTTTATATAT AATCACAGAG CTTACGATAA AGCTGCAATC 2460 AAATGTAACG GCAAAGACGC CGTGACCAAC TTTGATCCGA GTATTTACGA TGAGGAACTC 2520 AATGCCGGTA AATTGTCTCA TTTAATCGAG TAATTTTATA TATTTTTTGG TCCTTAGTTT 2580 CATCACTTTG GTGTTCGAAC TTGGTTTAAA GATTTTGAAT TTGGTGTATA TAGAGTCATC 2640 AGGGAATCCT ACTACTCCAC AAGATCACAA CCTCGATTTG AGCTTGGGAA ATTCGGCTAA 2700 TTCGAAGCAT AAAAGTCAAG ATATGCGGCT CAGGGTAGGG TTTAATCTTA TATTATTAAC 2760 AATAATTTAT ATCTTAATAT ATTGTTTATA TGTTTATAAA CATGTTTTCT TTTGTTTTGC 2820 TTTCAGATGA ACCAACAACA ACAAGATTCT CTCCACTCTA ATGAAGTTCT TGGATTAGGT 2880 CAAACCGGAA TGCTTAACCA TACTCCCAAT TCAAACCACC AAGTGAGTAA ATAACCACAA 2940 ATGCAAATAC CATAATTTCA TTTGAATATA TTTTATCTAA AGAATTGCAT TTTTTTTTGG 3000 TAAATTAGTT TCCGGGCAGC AGCAACATTG GTAGCGGAGG CGGATTCTCA CTGTTTCCGG 3060 CGGCTGAGAA CCACCGGTTT GATGGTCGGG CCTCGACGAA CCAAGTGTTG ACAAATGCTG 3120 CAGCATCATC AGGATTCTCT CCTCATCATC ACAATCAGAT TTTTAATTCT ACTTCTACTC 3180 CTCATCAAAA TTGGCTGCAG ACAAATGGCT TCCAACCTCC TCTCATGAGA CCTTCTTGAA 3240 TCTTTTATAT TTTTAAGGTT TATTATTATA TAAGAAAAAC AAAAATGAAC CTTTGAAATC 3300 CCCACATGTT CTTGGTCATT TCATTAATCA TCGGCTTATA TTTTGCTTAT TTTCCCCTAA 3360 ATCCTCTTGT TAACTTAGGC GAACAAAAA AATTAATGGA AATCTTTTTC CCTCCATCGG 3420 TTACAAAAT AATATTATAT ATAATTGTTG GATATATGGG AAATTGGATA AGTTTGTGAT 3480 TTGAGATGTT CTGACTAAAA AGGTTGAGAA GAGATTTGTC AATGAGTTGT CTTTTGTTGT 3540 TTCTCCTCAA TACATTTATT AAGATTTTAA AACATTACTT CTTTATATGT TACCTGCACC 3600 TATCTACATA TATGTTCAGT CCTAACTTGT TTTGTTATTC CTCTTTCATA TCTATTCAAT 3660 TAATGTTTTC CTAGCCTTAG TTCATTTTAC ATTTTTCTTG AAAATCTCTC ATGAAAAAAA 3720 CACATTCATG TGTGAAATAT ATTTCAACAC CCATTATAGT TTCGTTAATT CAGATATATA 3780 ATTTTATTT ATTACATATA ATAAAAATTG ACAGGTGGGT ATACACATGG TTTCCTTGTG 3840 CTAACATTGG TTTGAATAGC ATAAACCGAA TCCTAAAATA CTTTAAGTTC ACTTCGTAAA 3900 TAAAATCTGA TAAACTGAAC AAATTAGGTT CTCTAAAGTT GAGATGGGTA AATGTTCAGC 3960 TAACTCATGG AGTTGGAATT GTGATTCTCG CTTGTTCACA ATTGCTTTTG GTATTCACAA 4020 GGATACTAAT TGTATGCTTT GTTTGTGGTT GTGCTTTGTT TGCCATTGTT ACTCCTTTAT 4080 GGAGATCTAT GTTCTATCTT GTNCCCCTGT TGTTGGGAAA TCTTTATTTG CAGGGAATGA 4140 AAGCTTCTTT GGTGTTTATG GATTTGCTGT TGCATCTTGT TTGGACATGC TATCTTCTAA 4200 AACCCTTGAA GTTCCCTTGC GAGACATTTC TATCGCTTAT CGTTCTAGCA CCTACACGTT 4260 GGTAGCAGAA GATATTGTAG CGAAAACTGC CTTATCATTG AATAACGCCC TCTTGTTGGC 4320

GTGGAACGAA GACTCTTTGG TTTTGCAATT GTTCATGGAC TCCCAGTTCA GTGTAAAATC 4380 TTTCAAGTCA CTCGAAGTCA CCGTTGAGCT AGGGAGAATT CTGCTTGTTT TAAGCTTCTT 4440 TCACCTTCGG TTTATCCCCA TGTTTTTTGC ATTATTCTCT TATACTGCGT TTGTGTTTGC 4500 AGTTCTTTCA GTTTTTAGTG ATGTGTTTTA CTCTTGTAAT GGAGACTAAA TTATTTCTAT 4560 ATCTATAAAA TTAGTTTGAT AAAAAAAAA AAACTGAACA AATTTTATTT CGTTCAGCAA 4620 CGCTTATAAA TGCCAAATAG AAAAGTTCAG TTATTTTAAA GCTTTTTTGC ATATATATAT 4680 TATCTAACCT TTTATTGAAT TAGAGAATTT TAGTCAACCA TTAAAAATTA CGAATTTTCC 4740 TAGTTTATAC TATTTAGAAG TTGCAGTATC AATCATCACG GGAAAAAAAT AAAATGATAT 4800 TTTTGGTTTT GTCCATTTTG TAGATATTTT ACCGACAGAA GAAAAAAACA GTGATATTTT 4860 ATTTTTTAC AGTATTAATG GTGAGACGAG AGAGGAAAC AGAAGTAGAT TGGTTCTTAT 4920 GTTTCCCTAA TGGAGTAAGA AATAATACTC ACAGTTATTT TGCGATCTCA ACAAAAGTTA 4980 AAATGAATAT CAACCGTAAG ATCTCTTTCT TCTGTTTTCA CAGACTATGA AATATAAAAA 5040 ATCATAATGC CTACAAGCTA TGCGACCGTT AGTTAAAAAA AAATATGAAT AATATTCCAA 5100 AGAGAAAAA ATCTTGGAAA TAGAAAATTA GGTATAAAGA GAAAAGAGGC AAATAAAAAT 5160 TGGGGATTAT TAGGGATGAG TGGTCATTTT CAAGTAATGT GTCCTTTGAA TCAGTTTCTC 5220 TCTCTATCTC TCACAGAAAC CCAAAAGAAG TCAGACATTG TTATAATGGT GAGAGAGACT 5280 TCTCGGCTTC ACTTCCTTTC TCCTCTTTTA ATTCTCTTTT TAATTCAAAA GTTTAAAGAT 5340 TTTATTAAAT GTTTCATACT CTTACACTTA TTCATGAATC CTTTCCTAGA TTTCACTTTT 5400 ACTCTCTGTA TAATTTGTTC CTCCTTAAAC TCTTGGTTCA TCTATTTGGT TACGTTACAT 5460 CCTAATAGTC TTTATCATAT ATACCTTTGG GTCCTTTTAC TAATACTAGG TAAAAACTTC 5520 TAGTTGTATA ATGCTTAAAA TTACAATGGG GTTATGATGA TATTGTTATT TTATAATCGC 5580 ATTAGAATTG CAAACAAAA TTGTTTATGC TAGGATAAAC ATTTTAAGTG AGAAGACTAT 5640 CCCTTTTTT ATATCTATAT TTAGATTCGG AATTTTCTTA CTAACGAAAA ATATATAGAT 5700 GGAGAACTAT GACAATACAC TTTTGCCTTA CAATGACATT ATGGTTATTT ACCTAATTGA 5760 ATGATACAAA ATGAGATGGA GTTGTATGAA TTTATAGCAA CTGTCTTTCT GCTTCTTTTT 5820 TTTTTTTTTA ATAGAGTGGA GACTTGAATT CNNWRTTNAG NATGNNNNCY GAATTCAAGT 5880 CTCCACTCTA TTAAAAAAAA AAAAAAGAAG CAGAAAGACA GTTGCTATAA ATTCATACAA 5940 CTCCATCTCA TTTTGTATCA TTCAATTAGG TAAATAACCA TAATGTCATT GTAAGGCAAA 6000 AGTGTATTGT CATAGTTCTC CATCTATATA TTTTTCGTTA GTAAGAAAAT TCCGAATCTA 6060 AATATAGATA TAAAAAAAGG GATAGTCTTC TCACTTAAAA TGTTTATCCT AGCATAAACA 6120 ATTTTTGTTT GCAATTCTAA TGCGATTATA AAATAACAAT ATCATCATAA CCCCATTGTA 6180 ATTTTAAGCA TTATACAACT AGAAGTTTTT ACCTAGTATT AGTAAAAGGA CCCAAAGGTA 6240 TATATGATAA AGACTATTAG GATGTAACGT AACCAAATAG ATGAACCAAG AGTTTAAGGA 6300 GGAACAAATT ATACAGAGAG TAAAAGTGAA ATCTAGGAAA GGATTCATGA ATAAGTGTAA 6360

GAGTATGAAA CATTTAATAA AATCTTTAAA CTTTTGAATT AAAAAGAGAA TTAAAAGAGG 6420 AGAAAGGAAG TGAAGCCGAG AAGTCTCTCT CACCATTATA ACAATGTCTG ACTTCTTTTG 6480 GGTTTCTGTG AGAGATAGAG AGAGAAACTG ATTCAAAGGA CACATTACTT GAAAATGACC 6540 ACTCATCCCT AATAATCCCC AATTTTTATT TGCCTCTTTT CTCTTTATAC CTAATTTTCT 6600 ATTTCCAAGA TTTTTTCTC TTTGGAATAT TATTCATATT TTTTTTTAAC TAACGGTCGC 6660 ATAGCTTGTA GGCATTATGA TTTTTTATAT TTCATAGTCT GTGAAAACAG AAGAAAGAGA 6720 TCTTACGGTT GATATTCATT TTAACTTTTG TTGAGATCGC AAAATAACTG TGAGTATTAT 6780 TTCTTACTCC ATTAGGGAAA CATAAGAACC AATCTACTTC TGTTTCTCTC TCTCGTCTCA 6840 CCATTAATAC TGTAAAAAA TAAAATATCA CTGTTTTTTT CTTCTGTCGG TAAAATATCT 6900 ACAAAATGGA CAAAACCAAA AATATCATTT TATTTTTTTC CCGTGATGAT TGATACTGCA 6960 ACTTCTAAAT AGTATAAACT AGGAAAATTC GTAATTTTTA ATGGTTGACT AAAATTCTCT 7020 AATTCAATAA AAGGTTAGAT AATATATATA TGCAAAAAAG CTTTAAAATA ACTGAACTTT 7080 TCTATTTGGC ATTTATAAGC GTTGCTGAAC GAAATAAAAT TTGTTCAGTT TTTTTTTTT 7140 TATCAAACTA ATTTTATAGA TATAGAAATA ATTTAGTCTC CATTACAAGA GTAAAACACA 7200 TCACTAAAAA CTGAAAGAAC TGCAAACACA AACGCAGTAT AAGAGAATAA TGCAAAAAAAC 7260 ATGGGGATAA ACCGAAGGTG AAAGAAGCTT AAAACAAGCA GAATTCTCCC TAGCTCAACG 7320 GTGACTTCGA GTGACTTGAA AGATTTTACA CTGAACTGGG AGTCCATGAA CAATTGCAAA 7380 ACCAAAGAGT CTTCGTTCCA CGCCAACAAG AGGGCGTTAT TCAATGATAA GGCAGTTTTC 7440 GCTACAATAT CTTCTGCTAC CAACGTGTAG GTGCTAGAAC GATAAGCGAT AGAAATGTCT 7500 CGCAAGGGAA CTTCAAGGGT TTTAGAAGAT AGCATGTCCA AACAAGATGC AACAGCAAAT 7560 CCATAAACAC CAAAGAAGCT TTCATTCCCT GCAAATAAAG ATTTCCCAAC AACAGGGGNA 7620 CAAGATAGAA CATAGATCTC CATAAAGGAG TAACAATGGC AAACAAAGCA CAACCACAAA 7680 CAAAGCATAC AATTAGTATC CTTGTGAATA CCAAAAGCAA TTGTGAACAA GCGAGAATCA 7740 CAATTCCAAC TCCATGAGTT AGCTGAACAT TTACCCATCT CAACTTTAGA GAACCTAATT 7800 TGTTCAGTTT ATCAGATTTT ATTTACGAAG TGAACTTAAA GTATTTTAGG ATTCGGTTTA 7860 TGCTATTCAA ACCAATGTTA GCACAAGGAA ACCATGTGTA TACCCACCTG TCAATTTTTA 7920 TTATATGTAA TAAATAAAAA TTATATATCT GAATTAACGA AACTATAATG GGTGTTGAAA 7980 TATATTTCAC ACATGAATGT GTTTTTTCA TGAGAGATTT TCAAGAAAAA TGTAAAATGA 8040 ACTAAGGCTA GGAAAACATT AATTGAATAG ATATGAAAGA GGAATAACAA AACAAGTTAG 8100 GACTGAACAT ATATGTAGAT AGGTGCAGGT AACATATAAA GAAGTAATGT TTTAAAATCT 8160 TAATAAATGT ATTGAGGAGA AACAACAAAA GACAACTCAT TGACAAATCT CTTCTCAACC 8220 TTTTTAGTCA GAACATCTCA AATCACAAAC TTATCCAATT TCCCATATAT CCAACAATTA 8280 TATATAATAT TATTTTGTA ACCGATGGAG GGAAAAAGAT TTCCATTAAT TTTTTTTGTT 8340 CGCCTAAGTT AACAAGAGGA TTTAGGGGAA AATAAGCAAA ATATAAGCCG ATGATTAATG 8400

9 %

AAATGACCAA GAACATGTGG GGATTTCAAA GGTTCATTTT TGTTTTTCTT ATATAATAAT 8460 AAACCTTAAA AATATAAAAG ATTCAAGAAG GTCTCATGAG AGGAGGTTGG AAGCCATTTG 8520 TCTGCAGCCA ATTTTGATGA GGAGTAGAAG TAGAATTAAA AATCTGATTG TGATGATGAG 8580 GAGAGAATCC TGATGATGCT GCAGCATTTG TCAACACTTG GTTCGTCGAG GCCCGACCAT 8640 CAAACCGGTG GTTCTCAGCC GCCGGAAACA GTGAGAATCC GCCTCCGCTA CCAATGTTGC 8700 TGCTGCCCGG AAACTAATTT ACCAAAAAAA AATGCAATTC TTTAGATAAA ATATATTCAA 8760 ATGAAATTAT GGTATTTGCA TTTGTGGTTA TTTACTCACT TGGTGGTTTG AATTGGGAGT 8820 ATGGTTAAGC ATTCCGGTTT GACCTAATCC AAGAACTTCA TTAGAGTGGA GAGAATCTTG 8880 TTGTTGTTGG TTCATCTGAA AGCAAAACAA AAGAAAACAT GTTTATAAAC ATATAAACAA 8940 9000 TCTTGACTTT TATGCTTCGA ATTAGCCGAA TTTCCCAAGC TCAAATCGAG GTTGTGATCT 9060 TGTGGAGTAG TAGGATTCCC TGATGACTCT ATATACACCA AATTCAAAAT CTTTAAACCA 9120 AGTTCGAACA CCAAAGTGAT GAAACTAAGG ACCAAAAAAT ATATAAAATT ACTCGATTAA 9180 ATGAGACAAT TTACCGGCAT TGAGTTCCTC ATCGTAAATA CTCGGATCAA AGTTGGTCAC 9240 GGCGTCTTTG CCGTTACATT TGATTGCAGC TTTATCGTAA GCTCTGTGAT TATATATAAA 9300 ATAATGAAAA TCAATTAGTA ACGAGAAAAA CACATTATAC AACAATGTGT GTTGTAGAAT 9360 CAAACAAAA GACATTTACC TAGCAGCTTC GACCTCGGTG TCGAACAAAC CCAAATAAAC 9420 ATACCTATTT TATAAGATTC AAGAAACAAA AACTCAAAGT TAAAATAACA AACTAAAAAT 9480 GAAGTTTTCG AGTGAATATA AAATGAGAGA AATTATACTT TTTGCCTAAG AATTGACCCA 9540 TTCGAGCTTC CCAACGACCA CACTTATGCA AAGTGACACC TCTATACTTC GAACTTCCTC 9600 GAGGGAAGCC TGTGCTTTGT CGGCGAAGTA CGTGTACGAA CTCTTCCTTG GTTAAATTAG 9660 TCATCTATAA AATTCAATTT CAATATTAAT CTCCCAAACC TTTAAAAAATC GTTAATAAAA 9720 ACCAATATAG TTTATAATTT ATATTTACCT GTTTCAAGTC ATCATCATAA TCTTCGATGT 9780 TGAAATTGAT ATCCGCTTCT ACTCCACGGA ATTTAATAGC AGCTCTATCA TATGCTCTAT 9840 TAAATAAAAC AAAATTAAAA TTAATTTTTA TAAATTTCTT CCGGTATTTT TAAAAAAAATA 9900 AATAAATAAC AACTCAATAT AGAGAGAGTC AAAGAGAGAA AAATACCGAG CTGCTGCATG 9960 AGCAGTGTCA AATCCACCTA TTCAGAGNTT ATAATAAATT AAAATTATGA TGACATTTTT 10020 10080 CCACAGTCCC TGAAATTCAG AAGAACAAAC AAAAAAAAAC TTAAATTTAT AATCTAAAGT 10140 ACGATCGATT AACGAAATTA AAAATATGAG ATTATTACCA AATATGAGAT TCCCATCTTC 10200 CGGTACGCCG GTAAAACGTA ACACCTCTAT ACTGAGAACT TCTTGATCTT GGTCCACGCC 10260 GACTCTTTTT CAACGGCTGT GCCGGCTCCA CTACGGCAGC GGCAACGTTG GTAGCTTTAC 10320 CCGCGGACGA TCCGGTGGCT AGATCCGACT GACAAAACTT AACACCAAAC CAGTGAGCCC 10380 GAGGAAGCC AGAAGCAACA CCACCGCCGT TAGAATCCAT CTCAGGGAAG AACTGATGGG 10440

TGACAAGTGG GTTATTGGGT CTGACCCGGT TAAGTTCATC GTCATCGGAT CCATCTTCGA 10500 TAACAACAGC TGAAGAGCTA GAATTAGAGA AAGATCCAAC CCGTTTACTT GGTGAAGAAT 10560 AACAAAACTC TTCAGATTCT TCTTCTCTTT GTGTTTGGTG TGGTGCGTCG TTTAGATCCC 10620 ACATTTTTT TGTTTTTTT TGGTTTCTTG ATTTTGATCT TTGAAGGTTC AAACTTCAAT 10680 CCTCTGGTAT GATTCTCCTC AAGGTTAGAA GCTAAATAAG AGAAACCAAA GAGAAAAGCT 10740 10800 GAGAGAGAA AGAAAATAAA ATAAAAATTT GATAGATTGC TTCTACGAAA GCTTTCATTT 10860 TTATCCTTTC CTTTATATTT ACTTCCACTG CCCTTTCTCT CTCTCTTC TCTTGTCACT 10920 GTTTTTTTG TAAAAATTTA ATAAAATAAT ATTATTCTCT CTCTAACCAC TTGCTTTCTT 10980 TGGAAAAAG ATTATATTCG AAACAATTCC TCGTATTGGA GTTTCTTTAT TTTTTTCTT 11040 TATTTTAAAA AAAAATATTT CCACTTTCAT TTATTATCTA TGTATACAAA CATCTTCTTT 11100 GATTAATCAA AAGATTCCTT TAATATGTAA TTTCATGTTT TAAGAAAGTG AAGTCCACGG 11160 CTTGGTTCGG TAAGCAACTA TAAAAAGGTG TTTTTTGCAA GAAAATGAAT AATCTAGTAG 11220 ATTACTTCAA AACCCCACAA TACTGCCAAT TTTGATATAC TTTAAACTCT TGGAACAAAG 11280 CTTTTTGTTT GTTTTTCCT TTTTCTATAT GAATAAAAGG TAATAAGATA CAAATACAAA 11340 TAGATCTATA TTTGTTAAAG ATGTATATTT ATGTACAATA AATAGGTGTT TTCATGATCG 11400 GGCAAATTCA AAGTAGATGG GATATTAAGT TTTTGATACT AAATAGATTA TTTATATGTT 11460 TATTTAAAGT GGAGTTCCAT AAACAGCAAT TCCTTGAACA CAAGCAAGCA ATAGGGTTCT 11520 CACTATATAA GGAGTTATAA CATTTTCTAA ATGGCAATAA CTTGTTATCA AGTTTGTATT 11580 CTATTTCCAT TAAAATACTT TGCCCAAACT TATACTATGT CTGAAATCAT AATTCAATTG 11640 ATTTTAAACT ATCTGTTTTC TTAATGAGTT ATTCCAACCA AAGGCTTTTG AACTCATTGT 11700 TCAAACTATA TTATTGCTTA C 11721

(2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 67 amino acids (B) TYPE: amino acid

 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: Peptide (B) LOCATION: 1..67
- (D) OTHER INFORMATION: /note= "AP2-R1 direct repeat at positions 129 to 195"

(ix) FEATURE:

- (A) NAME/KEY: Region
- (B) LOCATION: 32..49
- (D) OTHER INFORMATION: /note= "putative AP2-R1 amphipathic alpha-helix (SEQ ID NO:6) "

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Ser Ser Gln Tyr Arg Gly Val Thr Phe Tyr Arg Arg Thr Gly Arg Trp

Glu Ser His Ile Trp Asp Cys Gly Lys Gln Val Tyr Leu Gly Gly Phe

Thr Asp Ala His Ala Ala Arg Ala Tyr Asp Arg Ala Ala Ile Lys

Phe Arg Gly Val Glu Ala Asp Ile Asn Phe Asn Ile Asp Asp Tyr Asp

Asp Asp Leu 65

(2) INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 68 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
- (A) NAME/KEY: Peptide
 (B) LOCATION: 1..68
 (D) OTHER INFORMATION: /note= "AP2-R2 direct repeat at positions 221 to 288"
 - (ix) FEATURE:
 - (A) NAME/KEY: Region
 - (B) LOCATION: 33..50
- (D) OTHER INFORMATION: /note= "putative AP2-R2 amphipathic alpha-helix (SEQ ID NO:7)"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Ser Ser Lys Tyr Arg Gly Val Thr Leu His Lys Cys Gly Arg Trp Glu

Ala Arg Met Gly Gln Phe Leu Gly Lys Lys Tyr Val Tyr Leu Gly Leu 20 25 30

Phe Asp Thr Glu Val Glu Ala Ala Arg Ala Tyr Asp Lys Ala Ala Ile

Lys Cys Asn Gly Lys Asp Ala Val Thr Asn Phe Asp Pro Ser Ile Tyr

Asp Glu Glu Leu

(2) INFORMATION FOR SEQ ID NO:6:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 18 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION: 1..18
 - (D) OTHER INFORMATION: /note= "putative AP2-R1 amphipathic alpha-helix"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Phe Asp Thr Ala His Ala Ala Ala Arg Ala Tyr Asp Arg Ala Ala Ile 10

Lys Phe

- (2) INFORMATION FOR SEQ ID NO:7:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 18 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION: 1..18
 - (D) OTHER INFORMATION: /note= "putative AP2-R2 amphipathic alpha-helix"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Phe Asp Thr Glu Val Glu Ala Ala Arg Ala Tyr Asp Lys Ala Ala Ile 15

Lys Cys

- (2) INFORMATION FOR SEQ ID NO:8:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4 amino acids
 - (B) TYPE: amino acid (C) STRANDEDNESS:

 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

Arg Ala Tyr Asp

(2) INFORMATION FOR SEQ ID NO:9:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 77 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION: 1..77
 - (D) OTHER INFORMATION: /note= "ANT-R1 direct repeat"
- (ix) FEATURE:
 - (A) NAME/KEY: Region
 - (B) LOCATION: 44..59
 - (D) OTHER INFORMATION: /note= "putative ANT-R1 amphipathic alpha-helix (SEQ ID NO:37)"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

Thr Ser Gln Tyr Arg Gly Val Thr Arg His Arg Trp Thr Gly Arg Tyr 1 5 10 15

Glu Ala His Leu Trp Asp Asn Ser Phe Lys Lys Glu Gly His Ser Arg 20 25 30

Lys Gly Arg Gln Val Tyr Leu Gly Gly Tyr Asp Met Glu Glu Lys Ala 35 40 45

Ala Arg Ala Tyr Asp Leu Ala Ala Leu Lys Tyr Trp Gly Pro Ser Thr 50 60

His Thr Asn Phe Ser Ala Glu Asn Tyr Gln Lys Glu Ile

- (2) INFORMATION FOR SEQ ID NO:10:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 69 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION: 1..69
 - (D) OTHER INFORMATION: /note= "ANT-R2 direct repeat"
 - (ix) FEATURE:
 - (A) NAME/KEY: Region
 - (B) LOCATION: 37..51
 - (D) OTHER INFORMATION: /note= "putative ANT-R2 amphipathic alpha-helix"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

Ala Ser Ile Tyr Arg Gly Val Thr Arg His His Gln His Gly Arg Trp

5 10 15

Gln Ala Arg Ile Gly Arg Val Ala Gly Asn Lys Asp Leu Tyr Leu Gly
20 25 30

Thr Phe Gly Thr Gln Glu Glu Ala Ala Glu Ala Tyr Asp Val Ala Ala 35 40 45

Ile Lys Phe Arg Gly Thr Asn Ala Val Thr Asn Phe Asp Ile Thr Arg 50 55 60

Tyr Asp Val Asp Arg 65

(2) INFORMATION FOR SEQ ID NO:11:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 67 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION: 1..67
 - (D) OTHER INFORMATION: /note= "RAP2.7-R1 direct repeat"
- (ix) FEATURE:
 - (A) NAME/KEY: Region
 - (B) LOCATION: 33..49
 - (D) OTHER INFORMATION: /note= "putative RAP2.7-R1 amphipathic alpha helix (SEQ ID NO:36)"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

Ser Ser Gln Tyr Arg Gly Val Thr Phe Tyr Arg Arg Thr Gly Arg Trp 5 10 15

Glu Ser His Ile Trp Asp Cys Gly Lys Gln Val Tyr Leu Gly Gly Phe 20 25 30

Asp Thr Ala His Ala Ala Ala Arg Ala Tyr Asp Arg Ala Ala Ile Lys
35 40 45

Phe Arg Gly Val Asp Ala Asp Ile Asn Phe Thr Leu Gly Asp Tyr Glu 50 60

Glu Asp Met 65

(2) INFORMATION FOR SEQ ID NO:12:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 53 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: Peptide
- (B) LOCATION: 1..53
- (D) OTHER INFORMATION: /note= "RAP2.7-R2 direct repeat"

(ix) FEATURE:

- (A) NAME/KEY: Region
- (B) LOCATION: 26..34
- (D) OTHER INFORMATION: /note= "putative RAP2.7-R2 amphipathic alpha-helix"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

Ser Ser Lys Tyr Arg Gly Val Thr Leu His Lys Cys Gly Arg Trp Glu 1 $$ 5 $$ 10 $$ 15

Ala Arg Met Gly Gln Phe Leu Gly Lys Lys Ala Tyr Asp Lys Ala Ala 20 25 30

Ile Asn Thr Asn Gly Arg Glu Ala Val Thr Asn Phe Glu Met Ser Ser 35 40 45

Tyr Gln Asn Glu Ile 50

(2) INFORMATION FOR SEQ ID NO:13:

A/e

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 5 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

Tyr Arg Gly Val Thr 1 5

(2) INFORMATION FOR SEQ ID NO:14:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 6 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 5
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa = Ala or Ser"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site (B) LOCATION: 6

 - (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa = Arg or His"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

Gly Arg Trp Glu Xaa Xaa

- (2) INFORMATION FOR SEQ ID NO:15:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

Val Tyr Leu Gly

(2) INFORMATION FOR SEQ ID NO:16:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

Ala Ala Ile Lys

- (2) INFORMATION FOR SEQ ID NO:17:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 69 amino acids
 - (B) TYPE: amino acid

 - (C) STRANDEDNESS:
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION: 1..69
 - (D) OTHER INFORMATION: /note= "AP2 domain within tobacco EREBP-1"

(ix) FEATURE:

- (A) NAME/KEY: Region
- (B) LOCATION: 36..51
- (D) OTHER INFORMATION: /note= "putative EREBP-1 amphipathic alpha-helix"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

Gly Arg His Tyr Arg Gly Val Arg Arg Pro Trp Gly Lys Phe Ala

Ala Glu Ile Arg Asp Pro Ala Lys Asn Gly Ala Arg Val Trp Leu Gly

Thr Tyr Glu Thr Asp Glu Glu Ala Ala Ile Ala Tyr Asp Lys Ala Ala

Tyr Arg Met Arg Gly Ser Lys Ala His Leu Asn Phe Pro Leu Glu Val

Ala Asn Phe Lys Gln 65

(2) INFORMATION FOR SEQ ID NO:18:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 69 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION: 1..69
 - (D) OTHER INFORMATION: /note= "AP2 domain within tobacco EREBP-2"
- (ix) FEATURE:
 - (A) NAME/KEY: Region
 (B) LOCATION: 35..51

 - (D) OTHER INFORMATION: /note= "putative EREBP-2 amphipathic alpha-helix"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

Gly Arg His Tyr Arg Gly Val Arg Gln Arg Pro Trp Gly Lys Phe Ala

Ala Glu Ile Arg Asp Pro Ala Lys Asn Gly Ala Arg Val Trp Leu Gly

Thr Tyr Glu Thr Ala Glu Glu Ala Ala Leu Ala Tyr Asp Lys Ala Ala

Tyr Arg Met Arg Gly Ser Lys Ala Leu Leu Asn Phe Pro His Arg Ile

Gly Leu Asn Glu Pro

(2) INFORMATION FOR SEO ID NO:19:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 68 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION: 1..68
 - (D) OTHER INFORMATION: /note= "AP2 domain within tobacco EREBP-3"
- (ix) FEATURE:
 - (A) NAME/KEY: Region
 - (B) LOCATION: 35..50
 - (D) OTHER INFORMATION: /note= "putative EREBP-3 amphipathic alpha-helix (SEQ ID NO:41)"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

Glu Val His Tyr Arg Gly Val Arg Lys Arg Pro Trp Gly Arg Tyr Ala

Ala Glu Ile Arg Asp Pro Gly Lys Lys Ser Arg Val Trp Leu Gly Thr

Phe Asp Thr Ala Glu Glu Ala Ala Lys Ala Tyr Asp Thr Ala Ala Arg

Glu Phe Arg Gly Pro Lys Ala Lys Thr Asn Phe Pro Ser Pro Thr Glu

Asn Gln Ser Pro 65

(2) INFORMATION FOR SEQ ID NO:20:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 69 amino acids
 - (B) TYPE: amino acid

 - (C) STRANDEDNESS: (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION: 1..69
 - (D) OTHER INFORMATION: /note= "AP2 domain within tobacco EREBP-4"
- (ix) FEATURE:
 - (A) NAME/KEY: Region
 - (B) LOCATION: 35..51
 - (D) OTHER INFORMATION: /note= "putative EREBP-4 amphipathic alpha-helix"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

Lys Lys His Tyr Arg Gly Val Arg Gln Arg Pro Trp Gly Lys Phe Ala

Ala Glu Ile Arg Asp Pro Asn Arg Lys Gly Thr Arg Val Trp Leu Gly

Thr Phe Asp Thr Ala Ile Glu Ala Ala Lys Ala Tyr Asp Arg Ala Ala

Phe Lys Leu Arg Gly Ser Lys Ala Ile Val Asn Phe Pro His Arg Ile

Gly Leu Asn Glu Pro

(2) INFORMATION FOR SEQ ID NO:21:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 68 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Peptide (B) LOCATION: 1..68

 - (D) OTHER INFORMATION: /note= "EREBP-like Arabidopsis RAP2.2 AP2 domain"
- (ix) FEATURE:
 - (A) NAME/KEY: Region
 - (B) LOCATION: 34..51
 - (D) OTHER INFORMATION: /note= "putative RAP2.2 amphipathic alpha-helix (SEQ ID NO:38)"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

Lys Asn Gln Tyr Arg Gly Ile Arg Gln Arg Pro Trp Gly Lys Trp Ala

Ala Glu Ile Arg Asp Pro Arg Lys Gly Ser Arg Glu Trp Leu Gly Thr

Phe Asp Thr Ala Glu Glu Ala Ala Arg Ala Tyr Asp Ala Ala Arg

Arg Ile Arg Gly Thr Lys Ala Lys Val Asn Phe Pro Glu Glu Lys Asn

Pro Ser Val Val 65

(2) INFORMATION FOR SEQ ID NO:22:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 68 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: Peptide
- (B) LOCATION: 1..68
- (D) OTHER INFORMATION: /note= "EREBP-like Arabidopsis RAP2.3 AP2 domain"

(ix) FEATURE:

- (A) NAME/KEY: Region
 (B) LOCATION: 36..50
- (D) OTHER INFORMATION: /note= "putative RAP2.3 amphipathic alpha-helix"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

Lys Asn Val Tyr Arg Gly Ile Arg Lys Arg Pro Trp Gly Lys Trp Ala

Ala Glu Ile Arg Asp Pro Arg Lys Gly Val Arg Val Trp Leu Gly Thr

Phe Asn Thr Ala Glu Glu Ala Ala Met Ala Tyr Asp Val Ala Ala Lys

Gln Ile Arg Gly Asp Lys Ala Lys Leu Asn Phe Pro Asp Leu His His

Pro Pro Pro Pro 65

(2) INFORMATION FOR SEQ ID NO:23:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 68 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: Peptide
- (B) LOCATION: 1..68
- (D) OTHER INFORMATION: /note= "EREBP-like Arabidopsis RAP2.5 AP2 domain"

(ix) FEATURE:

- (A) NAME/KEY: Region
 (B) LOCATION: 35..50
- (D) OTHER INFORMATION: /note= "putative RAP2.5 amphipathic alpha-helix (SEQ ID NO:39)"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

Glu Ile Arg Tyr Arg Gly Val Arg Lys Arg Pro Trp Gly Arg Tyr Ala

Ala Glu Ile Arg Asp Pro Gly Lys Lys Thr Arg Val Trp Leu Gly Thr

Phe Asp Thr Ala Glu Glu Ala Ala Arg Ala Tyr Asp Thr Ala Ala Arg 35 40 45

Asp Phe Arg Gly Ala Lys Ala Lys Thr Asn Phe Pro Thr Phe Leu Glu 50 55 60

Leu Ser Asp Gln 65

(2) INFORMATION FOR SEQ ID NO:24:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 68 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION: 1..68
 - (D) OTHER INFORMATION: /note= "EREBP-like Arabidopsis RAP2.6 AP2 domain"
- (ix) FEATURE:
 - (A) NAME/KEY: Region
 - (B) LOCATION: 34..51
 - (D) OTHER INFORMATION: /note= "putative RAP2.6 amphipathic alpha-helix"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

Pro Lys Lys Tyr Arg Gly Val Arg Gln Arg Pro Trp Gly Lys Trp Ala 1 10 1:5

Ala Glu Ile Arg Asp Pro His Lys Ala Thr Arg Val Trp Leu Gly Thr

Phe Glu Thr Ala Glu Ala Ala Ala Arg Ala Tyr Asp Ala Ala Ala Leu 35 40 45

Arg Phe Arg Gly Ser Lys Ala Lys Leu Asn Phe Pro Glu Asn Val Gly 50 55 60

Thr Gln Thr Ile 65

(2) INFORMATION FOR SEQ ID NO:25:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 68 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide



- (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION: 1..68
 - (D) OTHER INFORMATION: /note= "EREBP-like Arabidopsis RAP2.12 AP2 domain"
- (ix) FEATURE:
 - (A) NAME/KEY: Region
 - (B) LOCATION: 34..51
 - (D) OTHER INFORMATION: /note= "putative RAP2.12 amphipathic alpha-helix (SEQ ID NO:40)"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

Lys Asn Gln Tyr Arg Gly Ile Arg Gln Arg Pro Trp Gly Lys Trp Ala 1 5 10 15

Ala Glu Ile Arg Asp Pro Arg Glu Gly Ala Arg Ile Trp Leu Gly Thr 20 25 30

Phe Lys Thr Ala Glu Glu Ala Ala Arg Ala Tyr Asp Ala Ala Ala Arg 35 40 45

Arg Ile Arg Gly Ser Lys Ala Lys Val Asn Phe Pro Glu Glu Asn Met 50 55 60

Lys Ala Asn Ser 65

- (2) INFORMATION FOR SEQ ID NO:26:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 68 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION: 1..68
 - (D) OTHER INFORMATION: /note= "EREBP-like Arabidopsis TINY AP2 domain"
 - (ix) FEATURE:
 - (A) NAME/KEY: Region
 - (B) LOCATION: 35..50
 - (D) OTHER INFORMATION: /note= "putative TINY amphipathic alpha-helix"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

His Pro Val Tyr Arg Gly Val Arg Lys Arg Asn Trp Gly Lys Trp Val 1 5 10 15

Ser Glu Ile Arg Glu Pro Arg Lys Lys Ser Arg Ile Trp Leu Gly Thr 20 25 30

Phe Pro Ser Pro Glu Met Ala Ala Arg Ala His Asp Val Ala Ala Leu 35 40 45

Ser Ile Lys Gly Ala Ser Ala Ile Leu Asn Phe Pro Asp Leu Ala Gly 55

Ser Phe Pro Arg 65

(2) INFORMATION FOR SEQ ID NO:27:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 68 amino acids (B) TYPE: amino acid

 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION: 1..68
 - (D) OTHER INFORMATION: /note= "EREBP-like Arabidopsis RAP2.1 AP2 domain"
- (ix) FEATURE:
 - (A) NAME/KEY: Region
 - (B) LOCATION: 35..50
 - (D) OTHER INFORMATION: /note= "putative RAP2.1 amphipathic alpha-helix"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

Arg Lys Pro Tyr Arg Gly Ile Arg Arg Arg Lys Trp Gly Lys Trp Val

Ala Glu Ile Arg Glu Pro Asn Lys Arg Ser Arg Leu Trp Leu Gly Ser

Tyr Thr Thr Asp Ile Ala Ala Ala Arg Ala Tyr Asp Val Ala Val Phe

Tyr Leu Arg Gly Pro Ser Ala Arg Leu Asn Phe Pro Asp Leu Leu

Gln Glu Glu Asp

(2) INFORMATION FOR SEQ ID NO:28:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 68 amino acids (B) TYPE: amino acid

 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Peptide (B) LOCATION: 1..68

 - (D) OTHER INFORMATION: /note= "EREBP-like Arabidopsis RAP2.4 AP2 domain"



(ix) FEATURE:

- (A) NAME/KEY: Region (B) LOCATION: 35..50
- (D) OTHER INFORMATION: /note= "putative RAP2.4 amphipathic alpha-helix"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

Thr Lys Leu Tyr Arg Gly Val Arg Gln Arg His Trp Gly Lys Trp Val

Ala Glu Ile Arg Leu Pro Arg Asn Arg Thr Arg Leu Trp Leu Gly Thr

Phe Asp Thr Ala Glu Glu Ala Ala Leu Ala Tyr Asp Lys Ala Ala Tyr

Lys Leu Arg Gly Asp Phe Ala Arg Leu Asn Phe Pro Asn Leu Arg His

Asn Gly Phe His 65

(2) INFORMATION FOR SEQ ID NO:29:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 66 amino acids
 - (B) TYPE: amino acid (C) STRANDEDNESS:

 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide

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(ix) FEATURE:

- (A) NAME/KEY: Peptide
- (B) LOCATION: 1..66
- (D) OTHER INFORMATION: /note= "EREBP-like Arabidopsis RAP2.8 AP2 domain"

(ix) FEATURE:

- (A) NAME/KEY: Region
 (B) LOCATION: 33..48
- (D) OTHER INFORMATION: /note= "putative RAP2.8 amphipathic alpha-helix"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

Ser Ser Lys Tyr Lys Gly Val Val Pro Gln Pro Asn Gly Arg Trp Gly

Ala Gln Ile Tyr Glu Lys His Gln Arg Val Trp Leu Gly Thr Phe Asn

Glu Glu Glu Glu Ala Ala Arg Ser Tyr Asp Ile Ala Ala Cys Arg Phe

Arg Gly Arg Asp Ala Val Val Asn Phe Lys Asn Val Leu Glu Asp Gly

Asp Leu 65

(2) INFORMATION FOR SEQ ID NO:30:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 68 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION: 1..68
 - (D) OTHER INFORMATION: /note= "EREBP-like Arabidopsis RAP2.10 AP2 domain"
- (ix) FEATURE:
 - (A) NAME/KEY: Region
 - (B) LOCATION: 36..51
 - (D) OTHER INFORMATION: /note= "putative RAP2.10 amphipathic alpha-helix"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:
- Asp Lys Pro Tyr Lys Gly Ile Arg Met Arg Lys Trp Gly Lys Trp Val
- Ala Glu Ile Arg Glu Pro Asn Lys Arg Ser Arg Ile Trp Leu Gly Ser 20 25 30
- Tyr Ser Thr Pro Glu Ala Ala Ala Arg Ala Tyr Asp Thr Ala Val Phe 35 40 45

Tyr Leu Arg Gly Pro Ser Ala Arg Leu Asn Phe Pro Glu Leu Leu Ala 50 55 60

Gly Val Thr Val

(2) INFORMATION FOR SEQ ID NO:31:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 68 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION: 1..68
 - (D) OTHER INFORMATION: /note= "EREBP-like Arabidopsis RAP2.11 AP2 domain"
- (ix) FEATURE:
 - (A) NAME/KEY: Region
 - (B) LOCATION: 34..50
 - (D) OTHER INFORMATION: /note= "putative RAP2.11 amphipathic alpha-helix"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:

Lys Thr Lys Phe Val Gly Val Arg Gln Arg Pro Ser Gly Lys Trp Val 1 5 10 15

Ala Glu Ile Lys Asp Thr Thr Gln Lys Ile Arg Met Trp Leu Gly Thr 20 25 30

Phe Glu Thr Ala Glu Glu Ala Ala Arg Ala Tyr Asp Glu Ala Ala Cys 40 45

Leu Leu Arg Gly Ser Asn Thr Arg Thr Asn Phe Ala Asn His Phe Pro 50 55 60

Asn Asn Ser Gln 65

(2) INFORMATION FOR SEQ ID NO:32:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 5 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 4
 - (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa = Val or Ile"

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:

Tyr Arg Gly Xaa Arg

- (2) INFORMATION FOR SEQ ID NO:33:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 3
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa = positively charged amino acid"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 4
 - (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa = Trp, Phe or Tyr"

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(ix) FEATURE:
          (A) NAME/KEY: Modified-site
          (B) LOCATION: 5
          (D) OTHER INFORMATION: /product= "OTHER"
                                  /note= "Xaa = Ala or Val"
    (ix) FEATURE:
          (A) NAME/KEY: Modified-site
          (B) LOCATION: 9
          (D) OTHER INFORMATION: /product= "OTHER"
                                  /note= "Xaa = Arg or Lys"
    (ix) FEATURE:
          (A) NAME/KEY: Modified-site
          (B) LOCATION: 10
          (D) OTHER INFORMATION: /product= "OTHER"
                                  /note= "Xaa = Asp or Glu"
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:
     Trp Gly Xaa Xaa Xaa Ala Glu Ile Xaa Xaa
(2) INFORMATION FOR SEQ ID NO:34:
     (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 5 amino acids (B) TYPE: amino acid
          (C) STRANDEDNESS:
          (D) TOPOLOGY: linear
    (ii) MOLECULE TYPE: peptide
    (ix) FEATURE:
          (A) NAME/KEY: Modified-site
          (B) LOCATION: 4
          (D) OTHER INFORMATION: /product= "OTHER"
                                  /note= "Xaa = Ser or Thr"
    (ix) FEATURE:
          (A) NAME/KEY: Modified-site
          (B) LOCATION: 5
          (D) OTHER INFORMATION: /product= "OTHER"
                                  /note= "Xaa = Tyr or Phe"
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:
     Trp Leu Gly Xaa Xaa
(2) INFORMATION FOR SEQ ID NO:35:
     (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 8 amino acids
          (B) TYPE: amino acid
          (C) STRANDEDNESS:
          (D) TOPOLOGY: linear
    (ii) MOLECULE TYPE: peptide
```

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 5
- (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa = Ile, Leu or positively

charged amino acid"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:

Glu Glu Ala Ala Xaa Ala Tyr Asp 5 1

- (2) INFORMATION FOR SEQ ID NO:36:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 17 amino acids
 - (B) TYPE: amino acid (C) STRANDEDNESS:

 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION: 1..17
 - (D) OTHER INFORMATION: /note= "putative RAP2.7-R1 amphipathic alpha-helix"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:

Asp Thr Ala His Ala Ala Ala Arg Ala Tyr Asp Arg Ala Ala Ile Lys

Phe

- (2) INFORMATION FOR SEQ ID NO:37:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 16 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Peptide (B) LOCATION: 1..16

 - (D) OTHER INFORMATION: /note= "putative ANT-R1 amphipathic alpha-helix"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:

Met Glu Glu Lys Ala Ala Arg Ala Tyr Asp Leu Ala Ala Leu Lys Tyr

(2) INFORMATION FOR SEQ ID NO:38:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 18 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION: 1..18
 - (D) OTHER INFORMATION: /note= "putative RAP2.2 amphipathic alpha-helix"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:

Asp Thr Ala Glu Glu Ala Ala Arg Ala Tyr Asp Ala Ala Arg Arg

Ile Arg

(2) INFORMATION FOR SEQ ID NO:39:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 16 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear

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- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION: 1..16
 - (D) OTHER INFORMATION: /note= "putative RAP2.5 amphipathic alpha-helix"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:

Thr Ala Glu Glu Ala Ala Arg Ala Tyr Asp Thr Ala Ala Arg Asp Phe

- (2) INFORMATION FOR SEQ ID NO:40:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 18 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Peptide

 - (B) LOCATION: 1..18
 (D) OTHER INFORMATION: /note= "putative RAP2.12 amphipathic alpha-helix"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:

Lys Thr Ala Glu Glu Ala Ala Arg Ala Tyr Asp Ala Ala Ala Arg Arg 1 5 10 15

Ile Arg

- (2) INFORMATION FOR SEQ ID NO:41:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 16 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION: 1..16
 - (D) OTHER INFORMATION: /note= "putative EREBP-3 amphipathic alpha-helix"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:

Thr Ala Glu Glu Ala Ala Lys Ala Tyr Asp Thr Ala Ala Arg Glu Phe 1 5 10 15

(2) INFORMATION FOR SEQ ID NO:42:

44

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 25 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION: 1..25
 - (D) OTHER INFORMATION: /note= "AP2 linker region"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:

Lys Gln Met Thr Asn Leu Thr Lys Glu Glu Phe Val His Val Leu Arg
1 10 15

Arg Gln Ser Thr Gly Phe Pro Arg Gly 20 25

- (2) INFORMATION FOR SEQ ID NO:43:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 26 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION: 1..26
 - (D) OTHER INFORMATION: /note= "ANT linker region"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:

Glu Asp Met Met Lys Asn Met Thr Arg Gln Glu Tyr Val Ala His Leu 1 5 10 15

Arg Arg Lys Ser Ser Gly Phe Ser Arg Gly

- (2) INFORMATION FOR SEQ ID NO:44:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 26 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION: 1..26
 - (D) OTHER INFORMATION: /note= "RAP2.7 linker region"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:44:

Met Lys Gln Val Gln Asn Leu Ser Lys Glu Glu Phe Val His Ile Leu 1 5 10 15

Arg Arg Gln Ser Thr Gly Phe Ser Arg Gly

- (2) INFORMATION FOR SEQ ID NO:45:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 4
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa = positively charged amino acid"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:

Asn Leu Thr Xaa Glu Glu Phe Val His

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| (2) | INFO | RMATION FOR SEQ ID NO:46: | |
|------|----------|--|----|
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: peptide | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:46: | |
| | Leu 1 | Arg Arg Gln Ser Thr Gly Phe Ser Arg Gly 5 10 | |
| (2) | INFO | RMATION FOR SEQ ID NO:47: | |
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 118 (D) OTHER INFORMATION: /note= "JOAP2U primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:47: | |
| GTTC | CCGC' | rg ccgtagtg | 18 |
| (2) | INFO | RMATION FOR SEQ ID NO:48: | |
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 122 (D) OTHER INFORMATION: /note= "JOAP2L primer" | |

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:48:

GGTTCATCCT GAGCCGCATA TC

| (2) | INFO | RMATION FOR SEQ ID NO:49: | |
|-----|--------|--|------|
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 124 (D) OTHER INFORMATION: /note= "JORAP2.1U primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:49: | |
| CTC | AAGAA | GA AGTGCCTAAC CACG | 24 |
| (2) | INFO | RMATION FOR SEQ ID NO:50: | |
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 122 (D) OTHER INFORMATION: /note= "JORAP2.1L primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:50: | |
| GCA | BAAGC' | TA GAAGAGCGTC GA | . 22 |
| (2) | INFO | RMATION FOR SEQ ID NO:51: | |
| ,_, | | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 118 (D) OTHER INFORMATION: /note= "JORAP2.2U primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:51: | |

GGAAAATGGG CTGCGGAG

| (2) | INFO. | RMATION FOR SEQ ID NO:52: | |
|-----|--------|--|----|
| - | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 122 (D) OTHER INFORMATION: /note= "JORAP2.2L primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:52: | |
| GTT | ACCTC(| CA GCATCGAACG AG | 22 |
| (2) | INFO | RMATION FOR SEQ ID NO:53: | |
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| ۴ | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 122 (D) OTHER INFORMATION: /note= "JORAP2.4U primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:53: | |
| GCT | GGATC' | TT GTTTCGCTTA CG | 22 |
| (2) | INFO | RMATION FOR SEQ ID NO:54: | |
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 122 (D) OTHER INFORMATION: /note= "JORAP2.4L primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:54: | |

GCTTCAAGCT TAGCGTCGAC TG

| (2) | INFO | RMATION FOR SEQ ID NO:55: | |
|------|--------|--|----|
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 120 (D) OTHER INFORMATION: /note= "JORAP2.5U primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:55: | |
| AGAT | rgggc' | IT GAAACCCGAC | 20 |
| (2) | INFO | RMATION FOR SEQ ID NO:56: | |
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| ۴ | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 118 (D) OTHER INFORMATION: /note= "JORAP2.5L primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:56: | |
| CTG | CTAG | GG CTACGCGC | 18 |
| (2) | INFO | RMATION FOR SEQ ID NO:57: | |
| | | SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 122 (D) OTHER INFORMATION: /note= "JORAP2.6U primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:57: | |
| TTCT | TTGC | CT CCTCAACCAT TG | 22 |

| (2) | INFO | RMATION FOR SEQ ID NO:58: | |
|------|--------|--|----|
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 122 (D) OTHER INFORMATION: /note= "JORAP2.6L" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:58: | |
| TCTG | SAGTT | CC AACATTTCG GG | 22 |
| (2) | INFO | RMATION FOR SEQ ID NO:59: | |
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| ۴ | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 122 (D) OTHER INFORMATION: /note= "JORAP2.7U primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:59: | |
| GAAA | ATTGG' | TA ACTCCGGTTC CG | 22 |
| (2) | INFO | RMATION FOR SEQ ID NO:60: | - |
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 122 (D) OTHER INFORMATION: /note= "JORAP2.7L primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:60: | |

CCATTTTGCT TTGGCGCATT AC

| (2) | INFO | RMATION FOR SEQ ID NO:61: | |
|-----|--------|--|----|
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| • | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 119 (D) OTHER INFORMATION: /note= "JORAP2.8U primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:61: | |
| GGC | TTAC | GC CTCTACCGG | 19 |
| (2) | TNFO | RMATION FOR SEQ ID NO:62: | |
| (=, | | SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| e | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 120 (D) OTHER INFORMATION: /note= "JORAP2.8L primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:62: | |
| CGC | CGTCT' | TC CAGAACGTTC | 20 |
| (2) | INFO | RMATION FOR SEQ ID NO:63: | |
| | | SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 121 (D) OTHER INFORMATION: /note= "JORAP2.9U primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:63: | |
| ATC | ACGGA' | TC TGGCTTGGTT C | 21 |

| (2) | INFO | RMATION FOR SEQ ID NO:64: | |
|------|-------|--|----|
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 122 (D) OTHER INFORMATION: /note= "JORAP2.9L primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:64: | |
| GCCI | TTCTT | CC GTATCAACGT CG | 22 |
| (2) | INFO | RMATION FOR SEQ ID NO:65: | |
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| P | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 119 (D) OTHER INFORMATION: /note= "JORAP2.10U primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:65: | |
| GTC | ACTC | CG GCGGTTACG | 19 |
| (2) | INFO | RMATION FOR SEQ ID NO:66: | |
| | | SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | ٠ |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 121 (D) OTHER INFORMATION: /note= "JORAP2.10L primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:66: | |

TCTCCTTATA TACGCCGCCG A

| (2) | INFORMATION FOR SEQ ID NO:67: | |
|------|--|---------------------|
| | (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) MOLECULE TYPE: DNA | |
| | <pre>(ix) FEATURE: (A) NAME/KEY: - (B) LOCATION: 123 (D) OTHER INFORMATION: /note=</pre> | "JORAP2.11U primer" |
| | (xi) SEQUENCE DESCRIPTION: SEQ ID N | 0:67: |
| GAGA | AGAGCA AAGGCAACAA GAC | 23 |
| (2) | INFORMATION FOR SEQ ID NO:68: | |
| | (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) MOLECULE TYPE: DNA | |
| aq | <pre>(ix) FEATURE: (A) NAME/KEY: - (B) LOCATION: 123 (D) OTHER INFORMATION: /note=</pre> | "JORAP2.11L primer" |
| | (xi) SEQUENCE DESCRIPTION: SEQ ID N | 0:68: |
| AGT | CGTTAGG AAAATGGTTT GCG | 23 |
| (2) | INFORMATION FOR SEQ ID NO:69: | |
| | (i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 25 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear | |
| | (ii) MOLECULE TYPE: DNA | |
| | <pre>(ix) FEATURE: (A) NAME/KEY: - (B) LOCATION: 125 (D) OTHER INFORMATION: /note=</pre> | "JORAP2.12U primer" |
| | (xi) SEQUENCE DESCRIPTION: SEQ ID N | 0:69: |

AAACCATTCG TTTTCACTTC GACTC

| (2) | INFO | RMATION FOR SEQ ID NO:70: | |
|-----|--------|--|----|
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 125 (D) OTHER INFORMATION: /note= "JORAP2.12L primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:70: | |
| TCA | CAGAG | CG TTTCTGAGAA TTAGC | 25 |
| (2) | INFO | RMATION FOR SEQ ID NO:71: | |
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| φ. | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 122 (D) OTHER INFORMATION: /note= "AP2U primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:71: | |
| ATG | rggga' | TC TAAACGACGC AC | 22 |
| (2) | INFO | RMATION FOR SEQ ID NO:72: | |
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 119 (D) OTHER INFORMATION: /note= "AP2L primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:72: | |

GATCTTGGTC CACGCCGAC

| (2) | INFO | RMATION FOR SEQ ID NO:73: | |
|-----|--------|--|----|
| · | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 118 (D) OTHER INFORMATION: /note= "RAP2.1U primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:73: | |
| AAG | AGGAC | CA TCTCTCAG | 18 |
| (2) | INFO | RMATION FOR SEQ ID NO:74: | |
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| ar | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 118 (D) OTHER INFORMATION: /note= "RAP2.1L primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:74: | |
| AAC | ACTCG(| CT AGCTTCTC | 18 |
| (2) | INFO | RMATION FOR SEQ ID NO:75: | |
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| , | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 118 (D) OTHER INFORMATION: /note= "RAP2.2U primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:75: | |

TGGTTCAGCA GCCAACAC

| (2) | INFO | RMATION FOR SEQ ID NO:76: | |
|-----|--------|--|----|
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| · | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 119 (D) OTHER INFORMATION: /note= "RAP2.2L primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:76: | |
| CAA | rgcat: | AG AGCTTGAGG | 19 |
| (2) | INFO | RMATION FOR SEQ ID NO:77: | |
| , | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 118 (D) OTHER INFORMATION: /note= "RAP2.4U primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:77: | |
| ACG | GATTT | CA CATCGGAG | 18 |
| (2) | INFO | RMATION FOR SEQ ID NO:78: | |
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 119 (D) OTHER INFORMATION: /note= "RAP2.4L primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:78: | |

| (2) | INFO. | RMATION FOR SEQ ID NO:79: | |
|-----|--------|--|----|
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 118 (D) OTHER INFORMATION: /note= "RAP2.5U primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:79: | |
| TAC | CGGTT' | TC GCGCGTAG | 18 |
| (2) | INFO | RMATION FOR SEQ ID NO:80: | |
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| C | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 121 (D) OTHER INFORMATION: /note= "RAP2.5L primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:80: | |
| CAC | CTTCG. | AA ATCAACGACC G | 21 |
| (2) | INFO | RMATION FOR SEQ ID NO:81: | |
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 122 (D) OTHER INFORMATION: /note= "RAP2.6U primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:81: | |

TTCCCCGAAA ATGTTGGAAC TC

| (2) | INFO | RMATION FOR SEQ ID NO:82: | |
|------|-------|--|----|
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 125 (D) OTHER INFORMATION: /note= "RAP2.6L primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:82: | |
| TGG | GAGAG | AA AAAATTGGTA GATCG | 25 |
| (2) | INFO | RMATION FOR SEQ ID NO:83: | |
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 118 (D) OTHER INFORMATION: /note= "RAP2.7U primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:83: | |
| CGA: | rggag | AC GAAGACTC | 18 |
| (2) | INFO | RMATION FOR SEQ ID NO:84: | |
| | | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 118 (D) OTHER INFORMATION: /note= "RAP2.7L primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:84: | |

GTCGGAACCG GAGTTACC

| (2) | INFO | RMATION FOR SEQ ID NO:85: | |
|----------|--------|--|----|
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA (genomic) | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 119 (D) OTHER INFORMATION: /note= "RAP2.8U primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:85: | |
| TCAC | CTCAA | AG GCCGAGATC | 19 |
| (2) | INFO | RMATION FOR SEQ ID NO:86: | |
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| <i>o</i> | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 119 (D) OTHER INFORMATION: /note= "RAP2.8L primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:86: | |
| TAAC | CAACA' | TC ACCGGCTCG | 19 |
| (2) | INFO | RMATION FOR SEQ ID NO:87: | |
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 118 (D) OTHER INFORMATION: /note= "RAP2.9U primer" | |
| | (vi) | SPOURNCE DESCRIPTION: SEO ID NO.87. | |

GTGAAGGCTT AGGAGGAG

| (2) | INFO | RMATION FOR SEQ ID NO:88: | |
|-----|--------------|--|----|
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 119 (D) OTHER INFORMATION: /note= "RAP2.9L primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:88: | |
| TGC | CTCAT | AT GAGTCAGAG | 19 |
| (2) | INFO | RMATION FOR SEQ ID NO:89: | |
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 118 (D) OTHER INFORMATION: /note= "RAP2.10U primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:89: | |
| TCC | CGGAG | CT TTTAGCCG | 18 |
| (2) | INFO | RMATION FOR SEQ ID NO:90: | |
| | (<u>i</u>) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 119 (D) OTHER INFORMATION: /note= "RAP2.10L primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:90: | |

CAACCCGTTC CAACGATCC

| (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (ix) FEATURE: (A) NAME/KEY: - (B) LOCATION: 123 (D) OTHER INFORMATION: /note= "RAP2.11U primer" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:91: TTCTTCACCA GAAGCAGAGC ATG (2) INFORMATION FOR SEQ ID NO:92: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (ix) FEATURE: (A) NAME/KEY: - (B) LOCATION: 124 (D) OTHER INFORMATION: /note= "RAP2.11L primer" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:92: CTCCATTCAT TGCATATAGG GACG (2) INFORMATION FOR SEQ ID NO:93: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (ix) FEATURE: (A) NAME/KEY: - (B) LOCATION: 124 (D) OTHER INFORMATION: /note= "RAP2.12U primer" (xi) FEATURE: (A) NAME/KEY: - (B) LOCATION: 124 (D) OTHER INFORMATION: /note= "RAP2.12U primer" | (2) | TMFOI | RMATION FOR SEQ 1D NO.91. | |
|--|------|--------|---|----|
| (ix) FEATURE: (A) NAME/KEY: - (B) LOCATION: 123 (D) OTHER INFORMATION: /note= "RAP2.11U primer" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:91: TTCTTCACCA GAAGCAGAGC ATG (2) INFORMATION FOR SEQ ID NO:92: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (ix) FEATURE: (A) NAME/KEY: - (B) LOCATION: 124 (D) OTHER INFORMATION: /note= "RAP2.11L primer" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:92: CTCCATTCAT TGCATATAGG GACG (2) INFORMATION FOR SEQ ID NO:93: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (ix) FEATURE: (A) NAME/KEY: - (B) LOCATION: 124 | | (i) | (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single | |
| (A) NAME/KEY: - (B) LOCATION: 123 (D) OTHER INFORMATION: /note= "RAP2.11U primer" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:91: TTCTTCACCA GAAGCAGAGC ATG (2) INFORMATION FOR SEQ ID NO:92: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (ix) FEATURE: (A) NAME/KEY: - (B) LOCATION: 124 (D) OTHER INFORMATION: /note= "RAP2.11L primer" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:92: CTCCATTCAT TGCATATAGG GACG (2) INFORMATION FOR SEQ ID NO:93: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (ix) FEATURE: (A) NAME/KEY: - (B) LOCATION: 124 | | (ii) | MOLECULE TYPE: DNA | |
| TTCTTCACCA GAAGCAGAGC ATG (2) INFORMATION FOR SEQ ID NO:92: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (ix) FEATURE: (A) NAME/KEY: - (B) LOCATION: 124 (D) OTHER INFORMATION: /note= "RAP2.11L primer" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:92: CTCCATTCAT TGCATATAGG GACG (2) INFORMATION FOR SEQ ID NO:93: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (ix) FEATURE: (A) NAME/KEY: - (B) LOCATION: 124 | | (ix) | (A) NAME/KEY: - (B) LOCATION: 123 | |
| (2) INFORMATION FOR SEQ ID NO:92: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (ix) FEATURE: (A) NAME/KEY: - (B) LOCATION: 124 (D) OTHER INFORMATION: /note= "RAP2.11L primer" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:92: CTCCATTCAT TGCATATAGG GACG (2) INFORMATION FOR SEQ ID NO:93: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (ix) FEATURE: (A) NAME/KEY: - (B) LOCATION: 124 | | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:91: | |
| (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (ix) FEATURE: (A) NAME/KEY: - (B) LOCATION: 124 (D) OTHER INFORMATION: /note= "RAP2.11L primer" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:92: CTCCATTCAT TGCATATAGG GACG (2) INFORMATION FOR SEQ ID NO:93: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (ix) FEATURE: (A) NAME/KEY: - (B) LOCATION: 124 | TTCT | rtcac(| CA GAAGCAGAGC ATG | 23 |
| (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (ix) FEATURE: (A) NAME/KEY: - (B) LOCATION: 124 (D) OTHER INFORMATION: /note= "RAP2.11L primer" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:92: CTCCATTCAT TGCATATAGG GACG (2) INFORMATION FOR SEQ ID NO:93: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (ix) FEATURE: (A) NAME/KEY: - (B) LOCATION: 124 | (2) | INFO | RMATION FOR SEQ ID NO:92: | |
| (ix) FEATURE: | | (i) | (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single | |
| (A) NAME/KEY: - (B) LOCATION: 124 (D) OTHER INFORMATION: /note= "RAP2.11L primer" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:92: CTCCATTCAT TGCATATAGG GACG (2) INFORMATION FOR SEQ ID NO:93: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (ix) FEATURE: (A) NAME/KEY: - (B) LOCATION: 124 | | (ii) | MOLECULE TYPE: DNA | • |
| CTCCATTCAT TGCATATAGG GACG (2) INFORMATION FOR SEQ ID NO:93: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (ix) FEATURE: (A) NAME/KEY: - (B) LOCATION: 124 | 0 | (ix) | (A) NAME/KEY: - (B) LOCATION: 124 | |
| (2) INFORMATION FOR SEQ ID NO:93: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (ix) FEATURE: (A) NAME/KEY: - (B) LOCATION: 124 | | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:92: | |
| (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (ix) FEATURE: (A) NAME/KEY: - (B) LOCATION: 124 | CTC | CATTC | AT TGCATATAGG GACG | 24 |
| (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (ix) FEATURE: (A) NAME/KEY: - (B) LOCATION: 124 | (2) | INFO | RMATION FOR SEQ ID NO:93: | |
| (ix) FEATURE: (A) NAME/KEY: - (B) LOCATION: 124 | | (i) | (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single | |
| (A) NAME/KEY: - (B) LOCATION: 124 | | (ii) | MOLECULE TYPE: DNA | |
| | | (ix) | (A) NAME/KEY: - (B) LOCATION: 124 | |
| (xi) SEQUENCE DESCRIPTION: SEQ ID NO:93: | | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:93: | |

GCTTTGGTTC AGAACTCGAA CATC

| (2) | INFO | RMATION FOR SEQ ID NO:94: | |
|------|----------|--|----|
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 122 (D) OTHER INFORMATION: /note= "RAP2.12L primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:94: | |
| AGG: | TTGAT | AA ACGAACGATG CG | 22 |
| (2) | INFO | RMATION FOR SEQ ID NO:95: | |
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 4 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: peptide | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:95: | |
| P | Lys 1 | Lys Ser Arg | |
| (2) | INFO | RMATION FOR SEQ ID NO:96: | |
| | (i) | SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear | |
| | (ii) | MOLECULE TYPE: DNA | |
| | (ix) | FEATURE: (A) NAME/KEY: - (B) LOCATION: 118 (D) OTHER INFORMATION: /note= "RAP2.3 primer" | |
| | (xi) | SEQUENCE DESCRIPTION: SEQ ID NO:96: | |
| TCAT | rcgccz | AC GATCAACC | 18 |

- (2) INFORMATION FOR SEQ ID NO:97:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 18 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA
 - (ix) FEATURE:
 - (A) NAME/KEY: -
 - (B) LOCATION: 1..18
 - (D) OTHER INFORMATION: /note= "RAP2.3 primer"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:97:

AGCAGTCCAA TGCGACGG

18

- (2) INFORMATION FOR SEQ ID NO:98:
 - (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 7 amino acids

 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:98:

Trp Ala Ala Glu Ile Arg Asp

- (2) INFORMATION FOR SEQ ID NO:99:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:99:

Met Ala Asp Ser